SWP Weekly Water Quality Summary

December 7 to 14, 2010

Electrical Conductivity: EC increased at Harvey O. Banks Pumping Plant (HBP) Check 29, Check 41, and Barker Slough. Concentrations ranged from 253 uS/cm to 557 µS/cm (152 to 334 mg/L), below the Article 19 Monthly Average Objective of 440 mg/L (733 µS/cm). At the end of the week, the highest concentration of 557 µS/cm (334 mg/L) occurred at Check 29, while the lowest concentration of 455 µS/cm (273 mg/L) occurred at Barker Slough. EC concentration at HBP increased from 434 µS/cm to 486 µS/cm (260 to 292 mg/L).

Bromide*: Concentrations exceeded the California Bay-Delta Authority (CBDA) Objective of 0.05 mg/L at all locations. Concentrations ranged from 0.07 to 0.28 mg/L. At the end of the week, Barker Slough had the lowest concentration of 0.20 mg/L, while the highest concentration of 0.28 mg/L occurred at Check 29.

* Bromide concentrations are calculated values using linear regression equations using EC concentrations and are not as accurate as bromide concentrations from laboratory analysis.

Turbidity: Turbidity levels increased at HBP, Check 29, and Barker Slough, but decreased at Check 41. Turbidity levels ranged from 2.2 to 34.3 NTU. The lowest level of 2.2 NTU occurred at Check 41, while the highest level of 34.3 NTU occurred at Barker Slough. Turbidity levels at HBP increased from 11.9 NTU to 12.6 NTU.

Dissolved Organic Carbon (DOC): Concentrations increased from 2.1 mg/L to 2.6 mg/L at HBP and from 2.3 mg/L to 2.5 mg/L at Edmonston Pumping Plant, but decreased from 2.4 to 1.9 mg/L at Check 13.

Taste and Odor Compounds: MIB and geosmin concentrations in the SWP will be available in the next weekly water quality summary.

Ground water pump-ins to the California Aqueduct from December 7 to 14, 2010 totaled 1,168 AF. The break down of the total volume was:

- Arvin Edison Water Storage District = 1 AF
- Kern Water Bank Authority (who operates the Kern Water Bank Canal) = 74 AF
- Semitropic (2&3) Water Storage District = 1,093 AF.

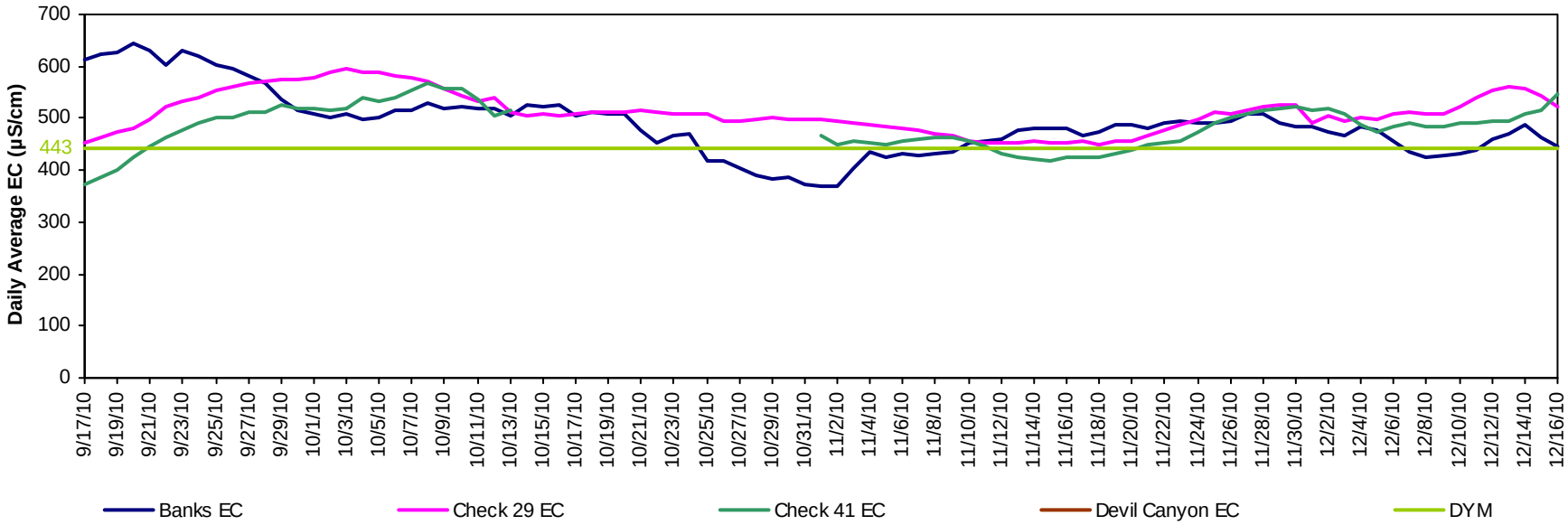
As of December 14, 2010, no data were available for Devil Canyon due to malfunctioning instruments. Communications with the Vallecitos station were down due to work being done on the South Bay Aqueduct.

The intent of the weekly water quality (WQ) summary is to acquaint contractors, scientists, and interested parties with the status of water quality in the State Water Project (SWP). Your comments, questions and suggestions are welcome and can be directed to Cindy Garcia at 916-653-7213, or Austine Eke at 916-653-7227. To view WQ data from the automated stations along the SWP, visit:

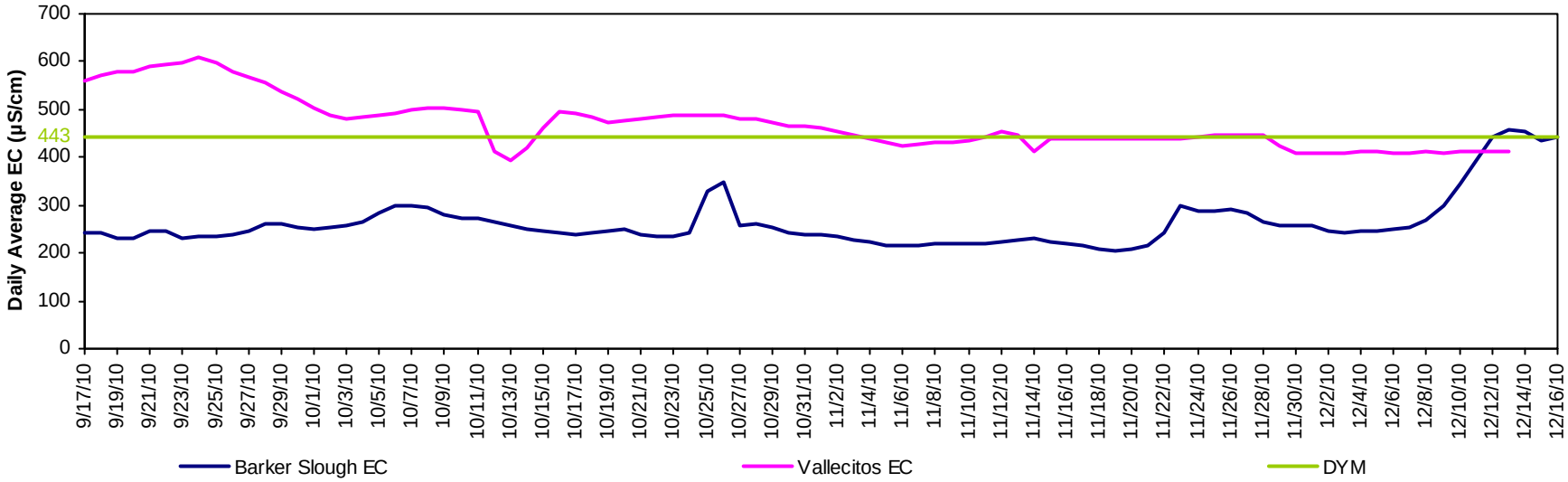
http://www.water.ca.gov/swp/waterquality/AutostationData/Autostation_map.cfm, and click on a station name on the map to link to the station's data on the California Data Exchange Center (CDEC) website.

To view the Edmonston pumping plant daily pumping data, visit: www.water.ca.gov. Click on the "State Water Project" tab, and click on the "Operations Control" link. Look under the "Project-Wide Operations" header for the "Dispatcher's Daily Water Report."

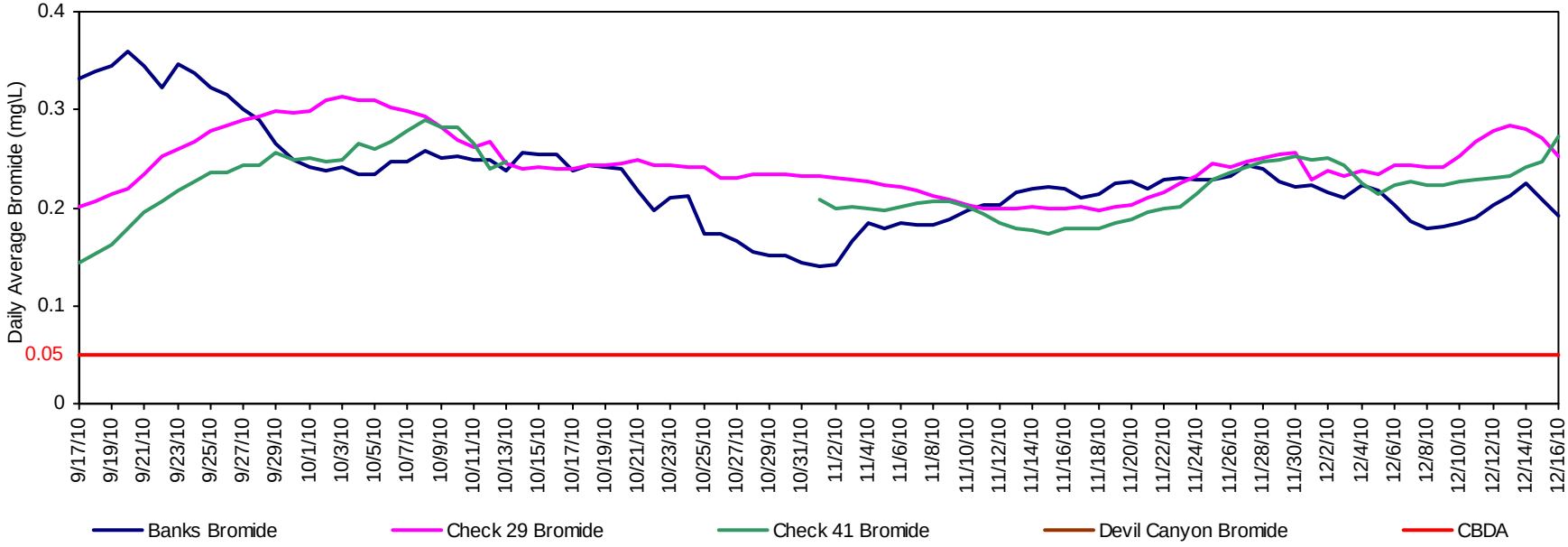
California Aqueduct - Electrical Conductivity



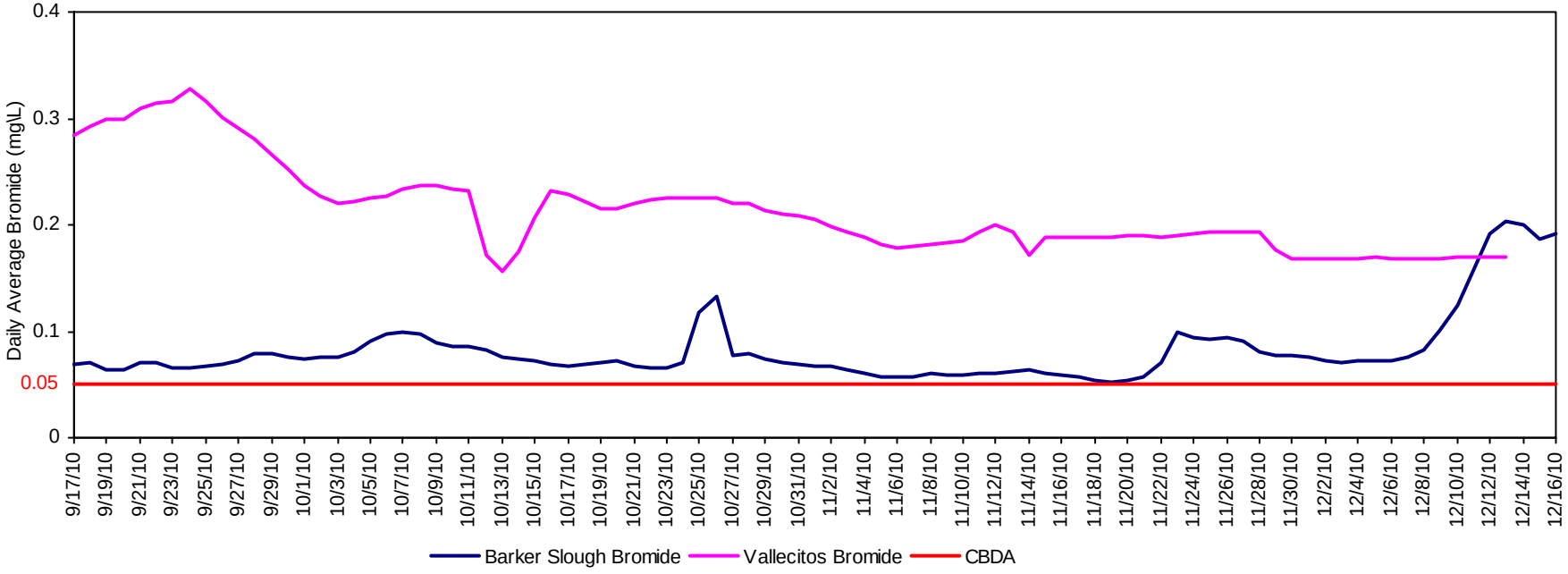
North and South Bay Aqueduct - Electrical Conductivity



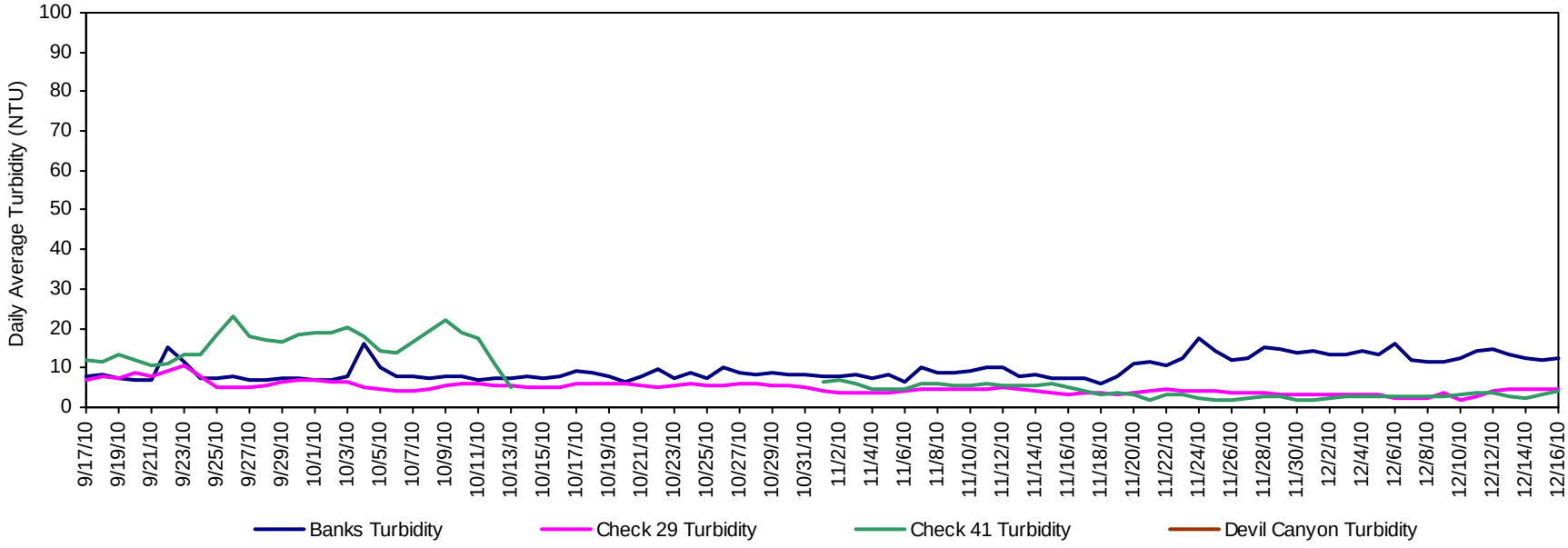
California Aqueduct - Calculated Bromide



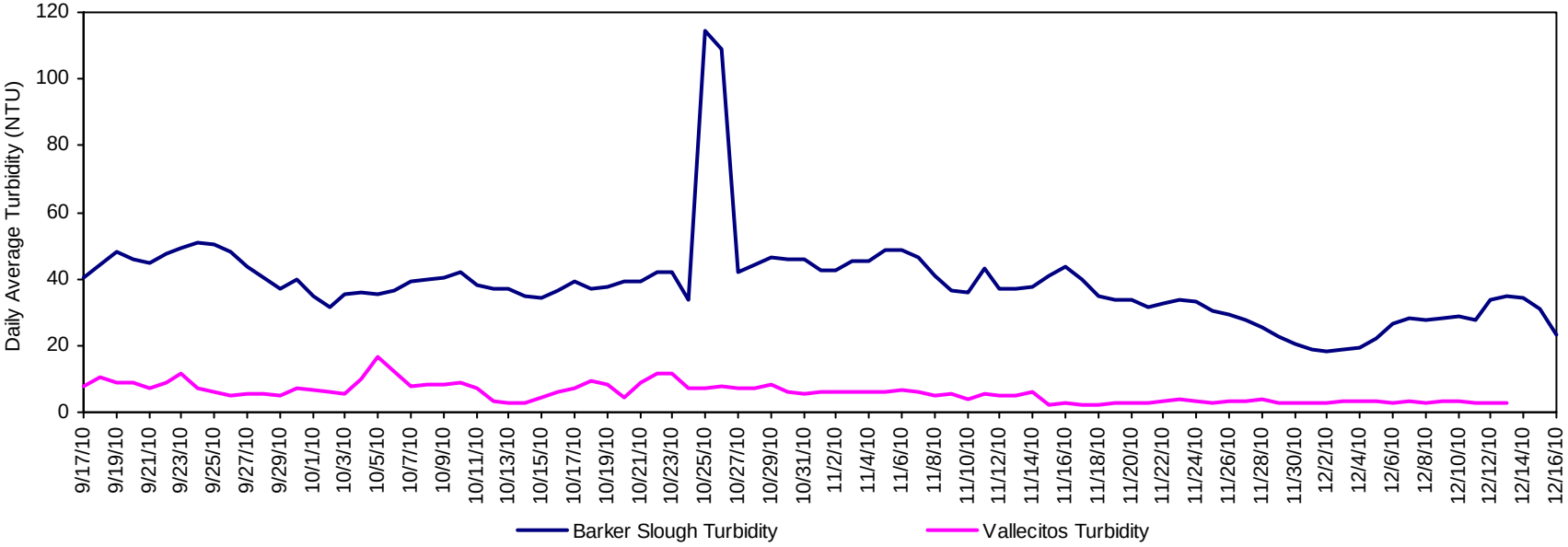
North and South Bay Aqueduct - Calculated Bromide

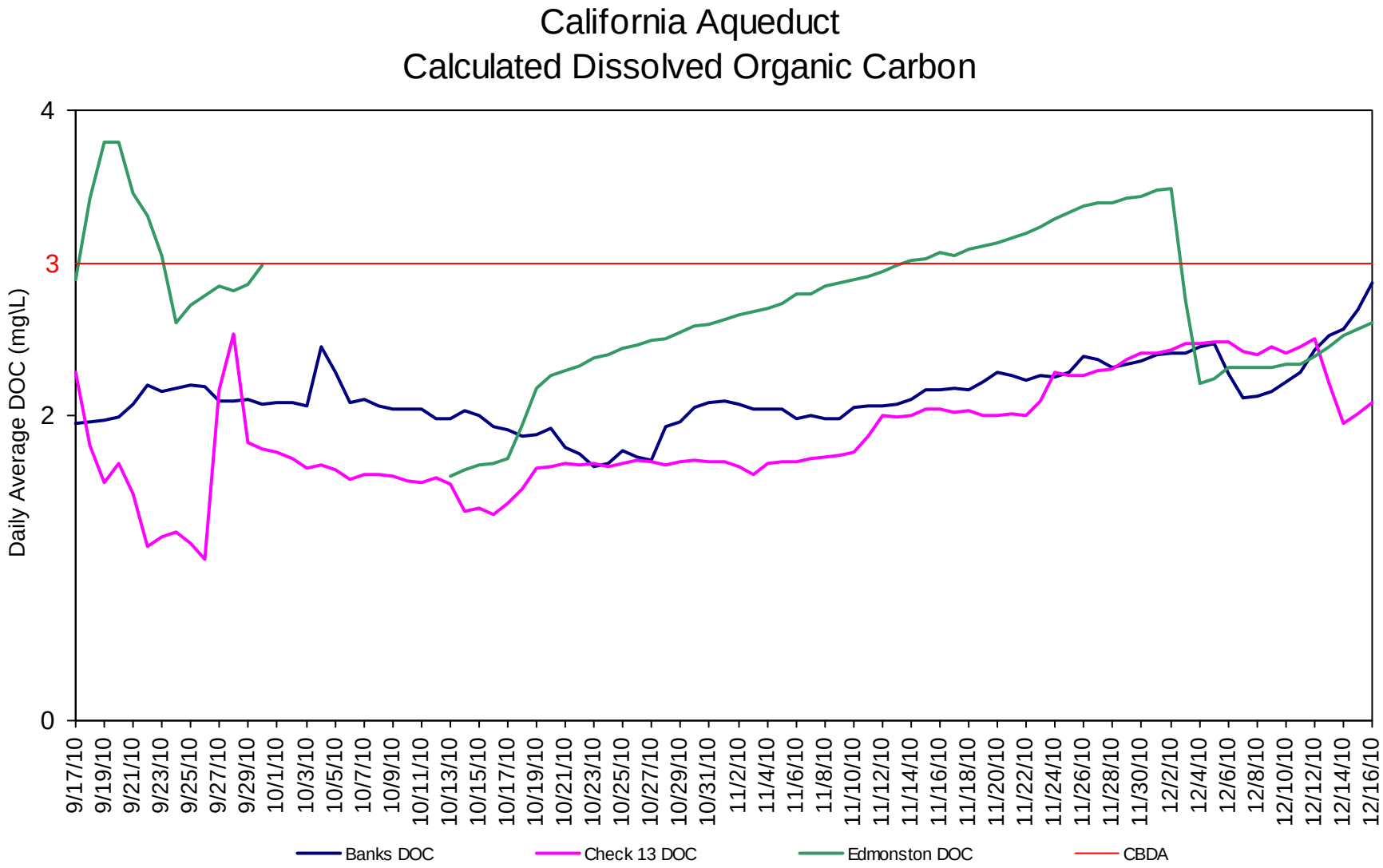


California Aqueduct - Turbidity



North and South Bay Aqueduct - Turbidity




California Aqueduct
Calculated Dissolved Organic Carbon
Daily Average DOC (mg\L)
4
3
2
0
9/17/10
9/19/10
9/21/10
9/23/10
9/25/10
9/27/10
9/29/10
10/1/10
10/3/10
10/5/10
10/7/10
10/9/10
10/11/10
10/13/10
10/15/10
10/17/10
10/19/10
10/21/10
10/23/10
10/25/10
10/27/10
10/29/10
10/31/10
11/2/10
11/4/10
11/6/10
11/8/10
11/10/10
11/12/10
11/14/10
11/16/10
11/18/10
11/20/10
11/22/10
11/24/10
11/26/10
11/28/10
11/30/10
12/2/10
12/4/10
12/6/10
12/8/10
12/10/10
12/12/10
12/14/10
12/16/10
Banks DOC
Check 13 DOC
Edmonston DOC
CBDA